PROJECT facts
U.S. Department of Energy
National Energy Research Laboratory

Materials and Advanced Metallurgical Research
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Mechanisms of Corrosion Under Ash Deposits

Project Lead
Albany Research Center
Albany, OR

Description
Research will be conducted in two different energy production strategies. These include the combustion or gasification of coal and the combustion of municipal waste. Research in support of these two areas will focus on the interactions between metals, ash, and chloride- and sulfate-containing ash components. The goal of the research will be to understand the mechanisms of corrosion of metal and alloy surfaces under ash deposits. The research should result in the ability to recommend alloying, coating, or other strategies to increase the service life of energy production components. A short-term, limited-scope experiment on the corrosion of air ports in Kraft Recovery Boilers will also be conducted.

Product Support Areas

Gasification Technologies	Combustion Technologies	Sequestration	Environmental & Water Resources	Advanced Turbine & Engines	Fuel Cells
	✓			✓	

NETL

Project:
Code: AMP-005

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